Author Index

A

Alvarez, G.A., Cantow, H.-J.: Time-Dependent Viscoelastic Functions for Cis-1,4-Polybutadiene Melts 155

Alvarez, G.A., Cantow, H.-J.: Addendum to the article appeared in Polymer Bulletin 8, 155 (1982). Time-Dependent Viscoelastic Functions for cis-1,4-Polybutadiene Melts 367

Ambroz, L., see Wong, K.

Aritome, H., see Hatada, K.

Atkin, E.L., Kleint'jens, L.A., Koningsveld, R., Fetters, L.J.: Isotope Effect in Polymer Compatibility 347

Aujla, R.S., Harris, R.K., Packer, K.J., Parameswaran, M., Say, B.J., Bunn, A., Cudby, M.E.A.: Discriminatory Experiments in High-Resolution ^{13}C NMR of Solid Polymers 253

B

Bagrodia, S., Mohajer, Y., Wilkes, G.L., Storey, R.F., Kennedy, J.P.: New Polyisobutylene-Based Model Ionomers. IV. Strain Induced Crystallization of Low Molecular Weight Model Ionomers 281

Bąk, G.W.: Field-Dependent Drift Mobility of Carriers in Polycrystalline Aromatic Hydrocarbon Layers 95

Bánhegyi, G., Hedvig, P.: Simulation of Heterophase Polarization in Polymers 287

Bánhegyi, G., see Hedvig, P.

Barvík, I., see Szöcs, V.

Bayer, E., Zheng, H., Geckeler, K.: Functionalization of Soluble Polymers. 4. Synthesis of Dichloro- and Di(4-Formylphenyloxy) Poly(Oxyethylene) 581

Berlepsch, H. von, see Brehmer, L.

Borchers, K., see Hortling, B.

Brehmer, L., Kornelson, M., Pinnow, M., Berlepsch, H. von: Simulation Calculations of the Charge Carrier Transport in Polyethylene 401

Brouwer, W.M., Piet, P., German, A. L.: Autoxidation of Thiols with Cobalt(II) Phthalocyanine-Tetra-Sodium Sulfonate, Attached to Poly(Vinylamine). 1. pH and Viscometric Effects 245

Bunn, A., see Aujla, R.S.

C

Candia, F. de, Maglio, G., Palumbo, R.: Synthesis and Characterization of Alternating Polyesteramides 109

Cantow, H.-J., see Alvarez, G.A.

Cantow, H.-J., see Gronski, W.

Cantow, H.-J., Schuster, R.H.: Thermodynamics of Macromolecular Systems. 1. Swelling of Polystyrene Networks in Cyclohexane 225

Cantow, H.-J., Schuster, R.H.: Thermodynamics of Macromolecular Systems. 3. Equilibrium Swelling Measurements Polystyrene-Cyclohexane-Acetone 519

Cantow, H.-J., see Schuster, R.H.

Čápek, V., see Szöcs, V.

Catalina, F., Martinez-Utrilla, R., Sastre, R.: Quantitative Evaluation of Polymeric Photosensitizers. 1. Determination of Stern-Volmer Constants in Poly-p-(Vinyl-Acetophenone)- and Poly-p-(Vinylbenzophenone)-Stilbene Systems 369
Cavrot, J.P., Engelaere, J.C., Rietsch, F.: Tensile Drawing of Poly(Ethylene-Terephthalate). Ultimate Properties 479
Cerrai, P., see Maschio, G.
Chang, V.S.C., Kennedy, J.P.: Gas Permeability, Water Absorption, Hydrolytic Stability and Air-Oven Aging of Polyisobutylene-Based Polyurethane Networks 69
Chen, K.S., Inagaki, N., Katsuura, K.: Electrical Properties of Polymer Films Prepared from Mixture of Tetramethylsilane and Oxygen by Glow Discharge Polymerization 81
Chen, S.-I., see Soga, K.
Chudáček, I., see Sedláček, T.
Chudáček, I., see Ulbert, K.
Chujo, Y., Tatsuda, T., Yamashita, Y.: Synthesis of Polyurethane Graft Copolymers by Polyaddition Reaction of Dihydroxyl-Terminated Macromonomers 239
Cudby, M.E.A., see Aujla, R.S.

D

Danjo, S., see Hatada, K.
De Paoli, M.-A., Schultz, G.W.: The Non Participation of $^1O_2$ in the Photo-Oxidation of Polybutadiene 437
Djonlagić, J., see Jacović, M.S.
Donth, E.: Analysis of Thermoluminescence Curves of Polymers Using Current Methods of Relaxation Phenomenology 211
Dumitriu, S., see Simionescu, B.C.
Dušek, K., see Ilavský, M.

E

Engelaere, J.C., see Cavrot, J.P.

F

Farona, M.F., see Thanedar, S.
Feng, X.D. (Voong, S.T.), see Tseng, S.S.
Feng, X.D., see Wu, S.K.
Ferry, J.D., see Fitzgerald, E.R.
Fetters, L.J., see Atkin, E.L.
Fitzgerald, E.R.: Carbon Black Network Contribution to the Dynamic Modulus of a Tire Stock 331
Fitzgerald, E.R., Ferry, J.D.: Temperature-Magnitude Superposition of the Dynamic Mechanical Response of Tire Stocks 339
Förster, H., see Kricheldorf, H.R.
Fujimori, K.: Radical Polymerization of Methacrylic Acid in the Presence of Copolymers of 4-Vinylpyridine in Methanol 207

G

Gaba, I.D., see Gupta, R.K.
Gaylord, R.J.: The Constant Volume Tube Model of Rubber Elasticity 325
Gaylord, N.G., Nagler, M.: Suspension Polymerization of Vinyl Chloride with Peroxyester-Stannous Chloride Catalyst System 395
Geckeler, K., see Bayer, E.
German, A.L., see Brouwer, W.M.
Giusti, P., see Maschio, P.
Gressier, J.C., Levesque, G., Patin, H.P.: Polymer-Supported Transition Metal Clusters. 1. Copolymers Containing Tricobalt Carbonyl Clusters 55
Gronski, W., Möller, M., Cantow, H.-J.: Micro- and Macroconformation of Macromolecules. 11. Glassy Phase Conformational Analysis of Semicrystalline and Amorphous Polymers by Variable-Temperature Magic-Angle Spinning ^{13}C-NMR 503
Guhaniyogi, S.C., see Kennedy, J.P.
Guhaniyogi, S.C., see Percec, V.

Gupta, R.K., Gaba, I.D., Pande, C.D., Singh, R.P.: Ultrasonic Velocities and Rao Formalism in Solutions of Polyamic Acids of Differing Molecular Structures 443
Guyot, A., see Mottet, C.

H

Hänsel, H., see Stroloke, W.
Harada, A., Nozakura, S.: Cooperative Inclusion of Sodium 1-Pyrenesulfonate by γ-Cyclodextrin 141
Harris, R.K., see Aujla, R.S.
Hatada, K., Kitayama, T., Danjo, S., Yuki, H., Aritome, H., Namba, S., Nate, K., Yokono, H.: Highly Sensitive Self Developing Electron-Beam Resist of Aldehyde Copolymers 469
Hauptmann, P., Säuberlich, R., Wartewig, S.: Ultrasonic Attenuation and Mobility in Polymer Solutions and Dispersions. Poly-(Vinyl Alcohol) and Poly (Vinyl Acetate) 269
Havránek, A.: Mobility of Rubber Chains Near Above the Glass Transition Temperature 133
Hirai, A., see Horii, F.
Hiraoka, K., Shin, H., Yokoyama, T.: Density Measurements of Poly-(Acrylic Acid) Sodium Salts 303
Horii, F., Hirai, A., Kitamaru, R.: Solid-State High-Resolution ^{13}C-NMR Studies of Regenerated Cellulose Samples with Different Crystallinities 163
Hortling, B., Borchers, K.: Poly-(Hydroxiphenylene Sulfide)s from Sulfur and Phenols by Activation with Halogens 1
Hrouz, J., see Ilavský, M.

I

Ilavský, M., Dušek, K.: The Structure and Elasticity of Polyurethane Networks. 2. Model Networks from Poly(Oxypropylene) Triols, Diisocyanate and a Monofunctional Component 359
Ilavský, M., Hrouz, J.: Phase Transition in Swollen Gels. 4. Effect of Concentration of the Crosslinking Agent at Network Formation on the Collapse and Mechanical Behaviour of Polyacrylamide Gels 387
Inagaki, N., see Chen, K.S.
Iván, B., László-Hedvig, Z., Kelen, T., Tüdős, F.: GPC Study of Ethylene-Propylene Copolymers Combined with Viscometry and IR Spectroscopy 311
Iván, B., see Percec, V.

J

Jacovič, M.S., Djonlagič, J., Lenz, R.W.: Synthesis of Some Fumaric Acid Polyamides from Active Diester Monomers 295
Jeszka, J.K., see Kryszewski, M.
Jiang, Y.C., see Wu, S.K.

K

Kaetsu, I., see Kumakura, M.
Kalpagam, V., see Kumar, G.S.
Katsuura, K., see Chen, K.S.
Kelen, T., see Iván, B.
Kennedy, J.P., see Bagrodia, S.
Kennedy, J.P., see Chang, V.S.C.
Kennedy, J.P., Guhaniyogi, S.C., Percec, V.: New Telechelic Polymers and Sequential Copolymers by Polyfunctional Initiator-Transfer Agents (Inifers). 27. Bisphenol- and Trisphenol-Polyisobutylenes 563
Kennedy, J.P., Guhaniyogi, S.C., Percec, V.: New Telechelic Polymers and Sequential Copolymers by Polyfunctional Initiator-Transfer Agents (Inifers). 28. Glycidyl Ethers of Bisphenol- and Trisphenol-Polyisobutylenes and Their Curing to Epoxy Resins 571
Kennedy, J.P., Hiza, M.: New Telechelic Polymers and Sequential Copolymers by Polyfunctional Initiator-Transfer Agents (Inifers). 26. Synthesis of α-Phenyl-ω-t-Chloropolyisobutylene by the Monofunctional Inifer (Minifer) Method 557

Kennedy, J.P., Lo, C.Y.: Macromers by Carbocationic Polymerization. 3. Reactivity Ratios in Macromer/Small Monomer Copolymerizations 63
Kennedy, J.P., see Mohajer, Y.
Kennedy, J.P., see Percec, V.
Kitamaru, R., see Horii, F.
Kitayama, M., see Kondo, T.
Kitayama, T., see Hatada, K.
Kleint'jens, L.A., see Atkin, E.L.
Klotz, S., see Schuster, R.H.
Kobayashi, S., Suzuki, M., Saegusa, T.: A New Reduction Method of Poly(Phosphine Oxide) to Polyphosphine. Preparation of Poly-[(P-Phenyl)Trimethylenephosphine] 417
Koňák, Č., see Sedláček, B.
Kondo, T., Kitayama, M., Vogl, O.: Head-to-Head Polymers. 20. DSC Analysis of Blends of Head-to-Head or Head-to-Tail Poly(Vinyl Chloride) with Poly(ε-Caprolactone) 9
Koningsveld, R., see Atkin, E.L.
Kornelson, M., see Brehmer, L.
Kricheldorf, H.R., Müller, D.: Secondary Structure of Peptides. 7. Induction of Secondary Structure in Solid Block Copolypeptides Studied by Means of ^{13}C-NMR CP/MAS Spectroscopy 495
Kricheldorf, H.R., Müller, D., Förster, H.: Secondary Structure of Peptides. 6. ^{13}C-NMR CP/MAS Investigation of Solid Poly(YO-Methyl-L-Glutamate) and Poly(YO-Benzyl-L-Glutamate) Prepared from N-Carboxyanhydrides (NCAs) 487
Kryszewski, M., see Tyczkowski, J.
Kryszewski, M., Ulański, J., Jeszka, J.K., Zieliński, M.: Chain and Carrier Mobility in Polymer Systems as Investigated by Thermally Stimulated Current Techniques 187
Kryszewski, M., see Wandelt, B.
Kumakura, M., Kaetsu, I.: Effect of the Polymer Matrix on the Immobilization of Lipase by Radiation Polymerization 75
Kumar, G.S., Kalpagam, V., Nandi, U. S., Vasantarajan, V.N.: Microbial Susceptibility of Condensation Products of Carboxy-Terminated-Polybutadiene and Glycerol 33

L

Lászlô-Hedvig, Z., see Iván, B.
Leancă, M., see Simionescu, B.C.
Lenz, R.W., see Jacovič, M.S.
Le Perchec, P., see Mottet, C.
Levesque, G., see Gressier, J.C.
Llauro, M.F., see Mottet, C.
Lo, C.Y., see Kennedy, J.P.

M

Maglio, G., see Candia, F. de
Mandelkern, L., see Stack, G.M.
Mark, J.E., see Welsh, W.J.
Martinez-Utrilla, R., see Catalina, F.
Maschio, G., Cerrai, P., Giusti, P.: Modelling of Polymerization Reactions. 2. Computer Simulation of Iodine Initiated Polymerization of Styrene 147
McGrath, J.E., see Tyagi, D.
McGrath, J.E., see Yilgör, I.
Meurer, B., Spegt, P., Weill, G.: NMR Study of the FEP Film Covering a Maser Cavity. Correlation Between the Maser Behaviour and the Dynamic Parameters of the Film as a Function of Temperature 39
Mihăilescu, C., see Simionescu, B.C.
Mihailov, M., see Spěváček, J.
Möller, M., see Gronski, W.
Mohajer, Y., see Bagrodia, S.
Mohajer, Y., Tyagi, D., Wilkes, G.L., Storey, R.F., Kennedy, J.P.: New Polyisobutylene Based Model Ionomers. 3. Further Mechanical and Structural Studies 47
Mottet, C., Revillon, A., Le Perchec, P., Llauro, M.F., Guyot, A.: Analogous Reaction for Maximum Sulfonation of Polysulfones 511
Müller, D., see Kricheldorf, H.R.

N

Nagler, M., see Gaylord, G.N.
Namba, S., see Hatada, K.
Nandi, U.S., see Kumar, G.S.
Nate, K., see Hatada, K.
Neagu, E., see Simionescu, B.C.
Neumann, W., see Stroloke, W.
Nozakura, S., see Harada, A.

Nuyken, O., Pask, S.D., Walter, M.: Polymerisation of Isobutene by the Inifer Technique. 2. Products Using Cumyl Chloride + BCl_3 451
Nuyken, O_1, see Pask, S.D.

O

Ohnishi, R., see Soga, K.

P

Packer, K.J., see Aujla, R.S.
Palumbo, R., see Candia, F. de
Pande, C.D., see Gupta, R.K.
Paradowska, B., see Wandelt, B.
Parameswaran, M., see Aujla, R.S.
Pask, S.D., Nuyken, O.: Polymerisation of Isobutene by the Inifer Technique. 3. The Effect of 2,6-di-t-Butyl Pyridine on the Polymerisation Using TCC + BCl_3 457
Pask, S.D., see Nuyken, O.
Patin, H.P., see Gressier, J.C.
Pecherz, J., Kryszewski, M.: Chemical Stability of 7,7',8,8'-Tetracyanoquinodimethane Salts with Polycations Containing Sulfur Atoms in the Main Chain 87
Pecherz, J., see Kryszewski, M.
Peppas, N.A., Staller, K.P.: Friedel-Crafts Crosslinking Methods for Polystyrene Modification. 5. Sulfonated Crosslinked Polystyrene Particles 233
Percec, V., Guhaniyogi, S.C., Kennedy, J.P.: New Telechelic Polymers and Sequential Copolymers by Polyfunctional Initiator-Transfer Agents (Inifers). 23. Interactions Between Alcohol-Telechelic Linear and Three-Arm Star Polyisobutylenes and Pyromellitic Dianhydride 319
Percec, V., Guhaniyogi, S.C., Kennedy, J.P.: New Telechelic Polymers and Sequential Copolymers by Polyfunctional Initiator-Transfer Agents (Inifers). 25. Synthesis and Characterization of α,ω-Di(Allyl) Polyisobutylene 551
Percec, V., Guhaniyogi, S.C., Kennedy, J.P., Ivân, B.: New Telechelic Polymers and Sequential Copolymers by Polyfunctional Initiator-Transfer Agents (Inifers). 22. Synthesis and Characterization of Linear and Three-Arm Star Block Copolymers of Isobutylene and N-Acetylethyleneimine 25
Percec, V., see Kennedy, J.P.
Piet, P., see Brouwer, W.M.
Pinnow, M., see Brehmer, L.

R

Revillon, A., see Mottet, C.
Rietsch, F., see Cavrot, J.P.
Riffle, J.S., see Yilgör, I.
Rooney, J.M.: The Reaction Between Trityl Hexachloroantimonate and 1,2-Dimethoxy-4-(1-Propenyl)-Benzene 101

S

Saegusa, T., see Kobayashi, S.
Säuberlich, R., see Hauptmann, P.
Sastre, R., see Catalina, F.
Say, B.J., see Aujla, R.S.
Schlosser, E.: Dielectric Principal Relaxation Above and Near the Glass Transition 461
Schneider, B., see Spěváček, J.
Schultz, G.W., see De Paoli, M.-A.
Schuster, R.H., see Cantow, H.-J.
Schuster, R.H., Cantow, H.-J., Klotz, S.: Thermodynamics of Macromolecular Systems. 2. Light Scattering Measurements Polystyrene-Cyclohexane-Acetone 351
Sedláček, T., Chudáček, I.: Drift Mobility of Holes in Some Photoconductive Polymeric Structures in the Glass Transition Region 193
Sedláček, B., Koňák, Č., Zimmermann, K.: Behaviour of a Turbid Swollen Gel During Continuous Heating, Equilibration and Cooling 125
Shin, H., see Hiraoka, K.
Sielski, J., see Tyczkowski, J.

Simionescu, B.C., Neagu, E., Leancă, M., Simionescu, C.I.: Thermally Stimulated Currents in Methacrylonitrile-Styrene Copolymer Films 15
Simionescu, B.C., Dumitriu, S., Mihăilescu, C., Simionescu, C.I.: Polymerization of Methyl Methacrylate Initiated with Invertase and $FeCl_3$ in Water 199
Simionescu, C.I., see Simionescu, B. C.
Singh, R.P., see Gupta, R.K.
Siono, T., see Soga, K.
Slavinská, D., see Ulbert, K.
Smid, J., see Wong, K.
Soga, K., Chen, S.-I., Ohnishi, R.: Correlation Between the Oxidation States of Titanium and the Polymerization Activities for Higher α-Olefins and Diene Compounds 473
Soga, K., Siono, T.: Effect of Hydrogen on the Molecular Weight of Polypropylene with Ziegler-Natta Catalysts 261
Spegt, P., see Meurer, B.
Spěváček, J., Schneider, B., Mihailov, M.: ^{1}H-NMR Study of Interactions of Dimethyl Ester of 2,2,-4,4-Tetramethylglutaric Acid with Stereoregular Poly(Methyl Methacrylates) in Solution 171
Stack, G.M., Mandelkern, L., Voigt-Martin, I.G.: Changes in Crystallite Size Distribution During the Isothermal Crystallization of Linear Polyethylene 421
Staller, K.P., see Peppas, N.A.
Storey, R.F., see Bagrodia, S.
Storey, R.F., see Mohajer, Y.
Stroloke, W., Neumann, W., Hänsel, H.: Electrical Polarization Phenomena in Poly(Phenylquinoxaline)(PPQ) 527
Suzuki, M., see Kobayashi, S.
Szöcs, V., Barvík, I., Čápek, V.: Exciton Transfer Near Donors and Acceptors 579

T

Tatsuda, T., see Chujo, Y.
Thanedar, S., Farona, M.F.: Polymerization of Acetylenes by Zirconocene Dichloride/Ethylaluminium Dichloride 429
Tseng, S.S., Zhang, H.Z., Feng, X. D. (Voong, S.T.): Transformation of Cationic Polymerization of Tetrahydrofuran into Anionic Block Copolymerization of Methyl Methacrylate 219
Tüdős, F., see Iván, B.
Tyagi, D., see Mohajer, Y,
Tyagi, D., Wilkes, G.L., Yilgör, I., McGrath, J.E.: Siloxane-Urea Segmented Copolymers. 2. Investigation of Mechanical Behavior 543
Tyczkowski, J., Sielski, J., Kryszewski, M.: Hole Transport in Polyorganosilicon Thin Films 117

U

Ulański, J., see Kryszewski, M.
Ulbert, K., Chudáček, I., Slavínská, D.: Behaviour of a Thermoplastic Charged Surface in the Vicinity of the Softening Point 179

V

Vasantarajan, V.N., see Kumar, G.S.
Vogl, O., see Kondo, T.
Voigt-Martin, I.G., see Stack, G.M.

W

Walter, M., see Nuyken, O.
Wandelt, B., Kryszewski, M., Paradowska, B.: Photo-Oxidation Stabilization of Polystyrene by Aromatic Ultraviolet Light Absorbers Forming Charge Transfer Complexes 377
Wartewig, S., see Hauptmann, P.
Weill, G., see Meurer, B.
Welsh, W.J., Mark, J.E.: CNDO/2 Analyses of the Order of Protonation of Rodlike Polybenzobisoxazoles (PBO) 21
Wilkes, G.L., see Bagrodia, S.
Wilkes, G.L., see Mohajer, Y.
Wilkes, G.L., see Tyagi, D.
Wilkes, G.L., see Yilgör, I.
Wong, K., Ambroz, L., Smid, J.: Solvation of Poly(Ion-Pairs) Derived from Poly(2-Vinylfluorene) 411

Wu, S.K., Jiang, Y.C., Li, F.M., Feng, X.D.: Photoinitiation Mechanism of a Novel Monomer - Dimethyl-Aminobenzyl-Methacrylate 275

Y

Yamashita, Y., see Chujo, Y.
Yilgör, I., Riffle, J.S., Wilkes, G.L., McGrath, J.E.: Siloxane-Urea Segmented Copolymers. 1. Synthesis and Characterization of Model Polymers from MDI and α,ω-Bis(Aminopropyl) Polydimethylsiloxane 535

Yilgör, I., see Tyagi, D.
Yokono, H., see Hatada, K.
Yokoyama, T., see Hiraoka, K.
Yuki, H., see Hatada, K.

Z

Zhang, H.Z., see Tseng, S.S.
Zheng, H., see Bayer, E.
Zieliński, M., see Kryszewski, M.
Zimmermann, K., see Sedláček, B.

Subject Index

A

Acetylenes 429
N-Acetylethyleneimines 25
Acrylamide 207
Aldehyde copolymers 469
α,ω-Di(Allyl) polyisobutylene 551
Amorphous polymers 503
Analysis 503
Anionic block copolymerization 219
Autoxidation 245

B

Biodegradable polymers 33
Bisphenol- and trisphenol-polyisobutylenes 563, 571

C

Carbocationic polymerization 63
Carbon black-filled rubbers 339
Carbon black networks 331
N-Carboxyanhydrides 487
Carrier mobility 187
Carrier transport 95
Catalyst 395
Cationic polymerization 219
Cellulose, regenerated 163
Chain mobility 187
Charge carrier transport 401
Clusters, tricobalt carbonyl 55
CNDO/2 21
Cobalt(II)phthalocyanine-tetrasodium sulfonate 245
Computer simulation 147, 287
Copolymers, sequential 25
Copolymers, siloxane-urea 535, 543
Copolypeptides 495
Cross-polarization 253
Crystallization 421
Crystallization, strain induced 281
Current techniques, thermally stimulated 187
γ-Cyclodextrin 141
Cyclohexane 225

D

Differential scanning calorimetry 9
Dihydroxyl-terminated macromonomer 239
Diisocyanate 359
1,2-Dimethoxy-4-(1-propenyl)-benzene 101
p-Dimethyl-aminobenzyl-methacrylate, a model monomer 275
Dimethyl ester 171
Discharge currents 15

E

Elasticity 359
Electrical conduction 15
Electrical field dependence 95
Electrical polarization 527
Electrical properties 81
Electrocapillar effect 179
Electron beam resist 469
Epoxy resins 571
Ethyleneglycole 75
Ethylene-propylene copolymers 311
Exciton transfer 579

F

Ferrichloride 199
Films, polyorganosilicon 117
Flory-Huggins approach 225
Flory-Rehner approach 225
Free-radical copolymerisation 55
Friedel-Crafts crosslinking 233
"Frost effect" 179
Fumaric acid polyamides, synthesis 295

G

Gas permeability 69
Gel permeation chromatography 311
Gels 387
Glass transition 461
Glow discharge polymerization 81
Glycerol 33
Gordon's Pulse Induced Critical Scattering Method 347
Graft copolymers 63
Graft copolymers, polyurethane-poly-(methyl methacrylate) 239

H

Head-to-head polymers 9
Head-to-tail polymers 9
Hexafluoroisopropylenes 39
Holes, drift mobility 193
Hole transport 117
Hydrocarbons, aromatic, polycrystalline 95
Hydrogen 261
Hydroxiphenylenes 1

I

Immobilized enzymes 75
Inifers 25, 319, 551, 563, 571
Inifer technique 457
Initiator-transfer agents 319
Invertase 199
Ionomers 47, 281
Isobutene 457
Isobutylenes 25
Isotope effect 347

K

Koningsveld-Kleintjens equation 225

L

Light scattering measurements 351

M

Macromers 63
Masers 39
Methacrylic acid 207
Methacrylonitrile-styrene copolymer films 15
Methanol 207
Methyl methacrylate 199, 219

N

Networks 69, 225, 387
^{13}C-NMR 163, 253, 487, 495, 503
^{1}H-NMR 171

O

α-Olefins 473
Oxidation states 473
Oxygen 81

P

Peptides 487, 495
pH 245
Phenols 1
α-Phenyl-ω-t-chloropolyisobutylene 557
Photoconductivity 193
Photodegradation 377
Photoinitiation 275
Photo-oxidation 437
Photo-oxidation stabilization 377
Physico-mechanical properties 109
Plasma 117
Polarization, heterophase 287
Polyacrylamide gels 387
Poly(acrylic acid) sodium salts 303
Polyaddition 239
Polyalkenes 253
Polyamic acid solutions 443
Poly(benzbisthiazole)s 21
Poly(benzobisoxazole)s 21
Poly(γ-O-benzyl-L-glutamate) 487
Polybutadiene 33, 347, 437
cis-1,4-Polybutadiene melts 155, 367
Poly(ε-caprolactone)s 9
Polycations 87
Poly(N-epoxypropylcarbazole) 193
Polyesteramides, alternating 109
Polyethylene 401, 421
Polyethylene terephthalate 253, 479
Poly(hydroxyphenylene sulfide)s 1
Poly(ion-pairs) 411
Polyisobutylene 69, 281, 319
Polyisobutylene, three-arm-star 47
Polymer compatibility 347
Polymer films 81
Polymeric photosensitizers 369
Poly(Y-O-methyl-L-glutamate) 487
Poly(methyl methacrylates) 171

Poly(oxyethylene)s 581
Poly(oxypropylene)triols 359
Poly(phenylquinoxaline) 527
Polyphosphine 417
Polypropylene 261
Polystyrene 179, 211, 225, 233, 347, 377
Polystyrene-cyclohexane-acetone 351, 519
Poly(tetrafluoroethylene)s 39
Polyurethane 69, 239
Polyurethane networks 359
Poly(vinyl acetate) solutions 269
Poly-p-(vinyl-acetophenone) 369
Poly(vinyl alcohol) solutions 269
Poly(vinylamine) 245
Poly-p-(vinyl-benzophenone) 369
Poly(N-vinylcarbazole) 193
Poly(vinyl chloride)s 9
Poly(2-vinylfluorene) 411

R

Radiation polymerization 75
Radical polymerization 207, 239
Rao formalism 443
Relaxation 211, 461
Rubber elasticity 325
Rubbers, natural, ethylene-propylene 133

S

Semicrystalline polymers 503
Simulation 401
Sodium 1-pyrenesulfonate 141
Solid polymers 253
Soluble polymers 581
Spin-lattice relaxation 253
Stability 87
Star block copolymers 25
Stern-Volmer constants 369
Stilbene 369
Structure and composition 109
Styrene 147, 207
Sulfonation 233, 511
Sulfur 87
Suspension polymerization 395
Swollen gels 125, 225
Swollen state 233

T

Telechelic polymers 25, 551, 563, 579
Tensile drawing 479
7,7',8,8'-Tetracyanoquinodimethane salts 87
Tetrahydrofuran 219
2,2,4,4-Tetramethylglutaric acid 171
Tetramethylsilane 81
Thermodynamics 225, 519
Thermoluminescence 211
Thiols 245
Tire stocks, dynamic modulus 331
Tire stocks, temperature dependence of shear compliance and modulus 339
Titanium 473
Trityl hexachloroantimonate 101
Turbidity behaviour 125

U

Ultrasonic methods 269
Unsaturated polyesters 295

V

Velocities, ultrasonic 443
Vinyl chloride 395
4-Vinylpyridine 207
Viscoelasticity 133, 155, 367
Viscometry 245

W

Water absorption 69
"Wet dog effect" 187

Z

Ziegler-Natta catalysts 261
Zirconocene dichloride/ethyl-aluminium dichloride 429